


S/109/60/005/012/035/035
E192/E382



Interdepartmental Seminar on Cathode Electronics
(16th Session)

in the space-charge regime. On the basis of his experimental data the author showed that the main factor leading to an increase in the perveance of a diode with a pressed cathode is the increase in the intensity of the activated barium stream.

The third paper was read by P.V. Timofeyev and R.M. Aranovich. They reported the results of their investigation of a cold cathode made of magnesium oxide. They constructed electron tubes with magnesium-oxide cathodes (on a nickel base) coated with a layer of porous magnesium oxide having a thickness of 50 μ . These tubes could operate in various amplifying devices and could give an anode current up to 10 mA. The useful life of these tubes is more than 10 000 hours. The authors also demonstrated such a tube in a low-frequency amplifier.

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Interdepartmental Seminar on Cathode Electronics
(16th Session)

In the paper "Secondary-emission Characteristics of Antimony Sulphide and its Analogues" by V.L. Makedonskiy, it was shown that the secondary emission coefficient of the layers of Sb_2S_3 ,

Sb_2Se_3 and Sb_2Te_3 does not exceed 1.3.

A paper by V.A. Grodko et al entitled "Influence of the Difference of the Work Functions of the Electrodes of a Thermionic Converter on Its Output Parameters" presented the results of a theoretical analysis of the dependence of the output power and efficiency of a converter on the difference between the work functions of the anode and cathode (the above paper is published in the present issue of the journal). ✓

Card 3/3

VIKHLIAYEVA, R.P.; KUL'VARSKAYA, B.S.; SHABEL'NIKOVA, A.B.; YASNOPOL'SKAYA,
A.A.

Interinstitutional seminar on cathode processes; 16th
session. Radiotekh. i elektron, 5 no.12:2074-2075 D'60.
(MIRA 13:11)

(Cathodes)

S/109/60/005/05/020/021
E140/E435

AUTHORS: Basalayeva, N.Ya., Vikhlyayeva, R.P., Zhdan, A.G.
Zernov, D.V., Kofanova, T.I., Pervova, L.Ya.,
Politova, N.M., Polyakova, M.A., Popov, B.N., Spivak, G.V.,
Shabel'nikova, A.E. and Yasnopol'skaya, A.A.

TITLE: Report on the Ninth All-Union Conference on Cathode
Electronics

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol 5, Nr 5,
pp 866-879 (USSR)

ABSTRACT: This conference took place in Moscow from 21-28th
October 1959 with the participation of Soviet scientists
and guests from Hungary, Eastern Germany, the Chinese
Peoples' Republic and Czechoslovakia. The chairman of
the organization committee was Academician Vekshinskiy.
The report consists of brief abstracts of 125 papers
presented at the plenary sessions and the sections of
the conference. 15 Reports were presented in the section
on surface properties of solids dealing with electron
adsorption and structural properties of active surface
films. Electron-optical studies of "patch fields" on
emitting surfaces were discussed. 6 Papers on the

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E140/E435

Report on the Ninth All-Union Conference on Cathode Electronics

physics of semiconductor cathodes were given in the section on thermionic emission. 17 Papers were presented in the section on photoelectric emission. Many papers discussed industrial technology of photocells and multipliers. 16 Papers were presented at the section on secondary-electron emission. The section on field emission heard 11 papers discussing pulse field emission at high current densities, surface phenomena, field emission of semiconductors and the "condenser" cathode. More than 30 papers and brief communications were presented at the section on properties, new types and technology of cathodes, relating to the technology of various types of cathodes, their behaviour in practical devices and the operating mechanisms of individual cathodes. 19 Papers were given at the section on interaction of solid bodies with streams of charged particles and residual gases. Notes of conference discussion indicated that several sharp and critical exchanges of views took place.

Card 2/2

SOV/109-4-7-24/25

AUTHORS: Alekseyeva, A.P., Vikhlyayeva, R.P., Shabel'nikova, A.E.
and Yasnopol'skaya, A.A.

TITLE: Interdepartmental Seminar on Cathode Electronics
(14th Meeting) (News Item)

PERIODICAL: Radiotekhnika i elektronika, 1959, Vol 4, Nr 7,
pp 1215 - 1216 (USSR)

ABSTRACT: The meeting of the seminar took place on March 2, 1959,
at the Institut radiotekhniki i elektroniki AN SSSR
(Institute of Radio-engineering and Electronics of the
Ac.Sc., USSR). During the meeting, 8 articles were read
and discussed. The first article, by A.R. Shul'man
and Yu.A. Morozov, was devoted to the investigation of
the elastic reflection of the electrons having energies
ranging from 100 - 2 000 eV from 10 different elements
(Cr, Ni, Cu, Ge, Mo, Mg, Ta, Pt, Au, C).
Ye.S. Mashkova and G.A. Chetverikova read a paper on
"Investigation of the Temperature Dependence of the
Secondary Emission Coefficient of Monocrystals of Barium
Titanate and Lead Titanate".

Card1/3

SOV/109-4-7-24/25

Interdepartmental Seminar on Cathode Electronics (14th Meeting)
(News Item)

M.V. Sinel'nikov reported on his investigation of the electron emission of a pure metal surface at room temperatures.

A paper entitled "Electro-microscopic Investigation of the Emission of Pressed Cathodes" was read by Ye.M. Dubinina.

A.A. Gugin and B.N. Popov reported on "Influence of Oxygen on the Emission of the Cathodes Prepared From the Salts of Barium and Calcium Having High Melting Points". B.Ch. Dyubua and B.N. Popov dealt with "Some Properties of the Barium-titanium System".

The results of an investigation of the field emission from tungsten monocrystals by pulse technique were presented by I.I. Gofman and G.N. Shuppe.

Card 2/3

Interdepartmental Seminar on Cathode Electronics (14th Meeting)
(News Item) SOW/109-4-7-24/25

V.M. Gavrilyuk and Yu.S. Vedula presented a paper dealing with "Adsorption of Barium and Barium Oxide on Tungsten Surfaces".

Card 3/3

SOV-109-3-6-26/27

AUTHORS: Savitskaya, Ya. S., Vikhlyayeva, R. P., Alpatova, N. M.

TITLE: An Interdepartmental Seminar on Cathode Electronics (7th Session) ((Mezhduvedomstvennyy seminar po katodnoy elektronike (7-e zasedaniye))

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 6, p 854 (USSR)

ABSTRACT: On the 3rd February 1956 a Session of the Interdepartmental Seminar took place in the Institute of Radio Engineering and Electronics of the Soviet Academy of Sciences. During the meeting 6 lectures were delivered. A. A. Maklakov and Ye. P. Ostapchenko dealt with the new method of preparing barium and barium-calcium aluminates and tungstates. L. Ya. Snoktiy presented the results of her work on the improvement of the processing of sintered cathodes. The lecture of R. M. Rybakova dealt with the investigation of oxide suspensions for directly heated cathodes. A. P. Iyevlev spoke of the production technology and the methods of control of a new barium getter. N. I. Ekivina considered the problem of application of the electro-osmosis for the investigation of the electro-phoresis of alundum suspensions. The paper of

Card 1/2

SOV-109-3-6-26/27

An Interdepartmental Seminar on Cathode Electronics (7th Session)

Yu. N. Buznikov analysed the causes and the mechanism of the darkening of alundum coatings during the preparation and the operation of the electron tubes.

SUBMITTED: March 14, 1958

Card 2/2 1. Electron tubes - USSR

S/109/60/005/010/028/031
E033/E415

AUTHORS: Vikhlyayeva, R.P., Zhdan, A.G. and Shabel'nikova, A.E.

TITLE: Inter-Institutional Seminar on Cathode Electronics
(15th Meeting)

PERIODICAL: Radiotekhnika i elektronika, 1960, Vol.5, No.10,
pp.1747-1748

TEXT: Six reports were heard at the 15th Meeting of the Inter-Institutional Seminar on Cathode Electronics held on April 4, 1960 at the Institut radiotekhniki i elektroniki AN SSSR (Institute of Radioengineering and Electronics AS USSR). In his "The Application of Thermo-Electronic Emission for Direct Conversion of Heat Energy into Electrical", N.D.Morgulis gave a review of the work carried out at the Institut fiziki UkrSSR (Institute of Physics AS UkrSSR) and also at the Kiyevskiy gosudarstvennyy universitet (Kiyev State University). Some general physical properties of such converters, using pure tungsten, barium and cesium on tungsten, and thorium bicarbide cathodes had been investigated. For ThC₂ cathodes at 1900 to 2100°K, the efficiency was 8 to 15% and the e.m.f. 1.7 V. L.N.Dobretsov and N.D.Devyatkov took part in the discussion. V.B.Sandomirskiy reported on his and Sh.M.Kogan's work on the
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Inter-Institutional Seminar ...

S/109/60/005/010/028/031
E033/E415

external emission of "hot" electrons from homeopolar semi-conductors with a strong applied homogeneous electric field. The emission current is very dependent on the field particularly in the region corresponding to the horizontal part of the semiconductor volt-amp characteristic. M.I.Yelinson and A.G.Zhdan gave a report on the emission of "hot" electrons from quartz, activated by carbon. The authors had observed the emission of "hot" electrons from thin layers (approximately 5 microns) of $\text{SiO}_2 + \text{C}$, depending on the voltage at the layer, the anode voltage and temperature. A.L.Shustina communicated her observations on self-maintained emission from nickel-based, magnesium-oxide, cold-cathodes. The emission was excited by either visible light or electron bombardment and was accompanied by a uniform blue glow. The relation between the current and the collector potential is exponential and the maximum current density was 7 mA/cm^2 . The emission current is relatively stable (3% fall over a period of 8 hours). D.V.Zernov pointed out that self-maintaining emission also occurs in films of other materials, e.g. KCl and borium anhydride. N.L.Yasnopol'skiy, N.A.Karelina and V.S.Malysheva reported on secondary emission under (primary

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S/109/60/005/010/028/031
E033/E415

Inter-Institutional Seminar ...

electron) irradiation of thin layers of magnesium oxide on a thin aluminium base (approximately 400 Å) with current density approximately 10^{-6} A/cm². Secondary emission coefficients $\sigma = 7.5 - 8.5$ were obtained for primary electron energies $V_p = 3.5 - 4.5$ kV and $\sigma_{max} = 9$ when $V_p = 5$ kV on MgO film formed by activation of Mg in air. Stable values were somewhat lower. In the report "Secondary Emission under (Primary Electron) Irradiation from some Dielectrics" M.M.Sheftel' communicated that the maximum values of the secondary emission coefficient σ_{max} were: for KCl 4.2 with $V_p = 3$ kV; for NaCl 5.4 with $V_p = 3.5$ to 4 kV; for MgO 8.8 to 9.8 with $V_p = 6$ kV and current densities $\sim 10^{-9}$ A/cm². The base was aluminium. It was stated that a thin layer of gold between the Al and the dielectric led to an increase in σ . The "outflight" angular distribution of secondary electrons did not conform to a cosine law. A.Ya.Vyatskin pointed out the necessity of careful separation of "true" secondary electrons from reflected primary electrons. L.N.Dobretsov mentioned that the field of the charged spot can reduce σ and

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Inter-Institutional Seminar ...

S/109/60/005/010/028/031
E033/E415

distort the angular distribution of secondary electrons.
V.I.Fomina in the report "Investigation of Induced Conductivity
of Some Chalcogenides of Antimony" gave results obtained on thin
layers of Sb_2S_3 and Sb_2Se_3 . For Sb_2S_3 , gain coefficients of
500 to 600 and "multiplicity" coefficients of 100 to 200 were
obtained. For Sb_2Se_3 , corresponding figures were 1500 to 1700
and 2 to 3. The induced current depended on the exciting
current density by $I_{\text{in}} = aI_{\text{p}}^n$, where n varies from 0.5 to 1
at room temperature and above. The induced current also depends
on the temperature in an exponential manner.

Card 4/4

VIKHLIYAYEVA, R.P.; ZHDAN, A.G.; SHBEL'NIKOVA, A.E.

Interagency Seminar on Cathode Electronics. Radiotekh. i elektron.
5 no.10:1746-1748 0 '60. (MIRA 13:10)
(Cathodes) (Electron tubes)

VIKHLIYAYEVA, Ye.M., doktor med. nauk; ZMANOVSKIY, Yu.F., kand. med. nauk

Use of tranquilizers in treating the climacteric syndrome.
Akush. i gin. no.1:95-101 '65. (MIRA 18:10)

1. Kafedra akusherstva i ginekologii I Moskovskogo meditsinskogo
instituta imeni Sechenova (zav.- prof. K.N. Zhmakin) i Nauchno-
issledovatel'skiy institut akusherstva i ginekologii Ministerstva
zdravookhraneniya SSSR (dir.- prof. O.V. Makeyeva).

VIKHLIAYEVA, Ye.M.; ZMAHOVSKIY, Yu.F.

Characteristics of the effect of sex steroid hormones on systemic motor conditioned reflexes in patients with climacteric syndrome. Akush. i gin. no.2:59-65'63. (MIRA 16:10)

1. Iz fiziologicheskoy laboratorii (zav. - prof. A.O.Dolin) Nauchno- issledovatel'skogo instituta akusherstva i ginekologii Ministerstva zdravookhraneniya RSFSR (dir. - prof. O.V. Makeyeva) i kafedry akusherstva i ginekologii I Moskovskogo ordena Lenina meditsinskogo instituta (zav. - prof. K.N. Zhmakin).

(CLIMACTERIC) (HORMONES, SEX) (CONDITIONED RESPONSE)

VIKHLIYAYEVA, Ye.M.

Principles for the treatment of patients with the climacteric syndrome. Sov. med. 27 no.6:52-58 Je '64. (MIRA 18:1)

1. Kafedra ausherstva i inekologii (zav. - prof. K.N. Zhmakin)
I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.
Sechenova.

VIKHLAYEVA, Ye.M.

Pathogenesis and treatment of the climacteric syndrome. Akush.
i gin. no.1:3-11 '62. (MIRA 15:11)

1. Iz kafedry akusherstva i ginekologii (zav. - zasluzhennyy
deyatel' nauki prof. K.N. Zlmakin) i Moskovskogo meditsin-
skogo instituta imeni I.M. Sechenova.
(CLIMACTERIC)

VIKHLIYAYEVA, Ye.M.; KALMYKOVA, V.I. (Moskva)

Combined use of sex steroid hormones in the climateric syndrome
in patients with hypertension and arteriosclerosis. Klin.med.
no.3:105-112 '62. (MIRA 15:3)

(HYPERTENSION)

(ARTERIOSCLEROSIS)

(CLIMACTERIC)

(HORMONES, SEX)

VIKHLIAYEVA, Ye.M. (Moskva)

Thyroid gland function in women during the climacteric. Probl.
endok.i gorm. 7 no.3:68-73 '61. (MIRA 14:10)

1. Iz kafedry akusherstva i ginekologii (zav. - prof. K.N.
Zhmakin) I Moskovskogo ordena Lenina meditsinskogo instituta
imeni I.M. Sechenova.

(THYROID GLAND)

(CLIMATERIC)

VANINA, L.V., kand.med.nauk., VIKHLYAYEVA, Ye.M., kand.med.nauk

Tenth All-Union Congress of Obstetricians and Gynecologists.

Klin.med. 36 no.8:151-156 Ag '58

(MIRA 11:9)

(OBSTETRICS--CONGRESSES)

(GYNECOLOGY--CONGRESSES)

VIKHMEN, A.; SAVEL'YEV, V. (Arkhangel'sk); DEGTYAREV, N.; RYABENKOV, Ya.;
BOBROVSKAYA, Z.; KULAGIN, N.; GROMADCHENKO, A. (g. Shakhty); MUN'KO, B.
(g. Zaporozh'ye); STROGANOV, B. (Kaliningrad); KAZAKOV, P.;
MAKAROV, L. (Dnepropetrovsk); ABRAMOVA, V. (Grodno); MOTCHENKO, Y.
(Kiyev); KRASNOV, A. (g. Al'met'yevsk); KAPLAN, Ya.; KASATKIN, I.
(Yaroslavl').

Letters to the editors. Sov.profsoiuzy 16 no.4:44-49 F '60.

(MIRA 13:3)

1. Chlen zavkoma, predsedatel' komissii okhrany truda moskovskogo zavoda "Elektrosvet" imeni P.N. Yablochkova (for Vikhman). 2. Glavnyy inzhner Kuchurganskogo cherepichno-kirpichnogo zavoda, selo Sokhal'skoye, Rozdel'nyanskogo rayona, Odesskoy oblasti (for Degtyarev). 3. Dorozhnyy komitet professional'nogo soyuza rabotnikov zheleznodorozhnogo transporta, Sverdlovsk (for Bobrovskaya, Kulagin). 4. Novotrubnyy zavod, g. Pervoural'sk (for Kazakov). 5. Predsedatel' postroyechnogo komiteta 5-go stroyrayona tresta "Al'met'yevneftestroy" (for Krasnov). 6. Predsedatel' ob'yedinennogo postroykoma tresta "Khabarovskstroy" (for Kaplan). 7. Predsedatel' tsekhovogo komiteta otdela glavnogo tekhnologa Yaroslavskogo motornogo zavoda (for Kasatkin).

(Efficiency, Industrial) (Trade unions)

L 14462-66

ACC NR: AP6002972

(N)

SOURCE CODE: UR/0286/65/000/024/0147/0148

INVENTOR: Sinit'skiy, B. A.; Kuznetsov, V. M.; Vaksman, A. Z.; Ratner, A. G.; Vikh-
man, B. A.; Rimmer, A. I.; Dmitriyev, V. P.; Rikhter, A. A.; Zagaytov, A. P.

23
B

ORG: none

TITLE: A universal form for hulls in shipbuilding⁵⁵ Class 65, No. 177291

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 147-148

TOPIC TAGS: shipbuilding engineering, marine equipment, ship

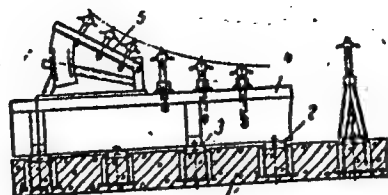
ABSTRACT: This Author's Certificate introduces a universal form for hulls in shipbuilding. The installation includes a foundation with standard elements, e.g. beams, stands and frames in a form depending on the members which make up the hull structure. The installation is designed for convenience in assembly, efficiency in the use of production area and economy of metal. The foundation is made up of anchored longitudinal or transverse channel or angle tracks. The projecting horizontal shelves of the tracks form T-slots above the level of the foundation by the thickness of a shelf. The standard elements are made with mating sockets for fastening

UDC: 629.12.002.011 : 621.757 :
: 621.791 : 621-783.624

Card 1/3

L 14462-66

ACC NR: AP6002972



1 - foundation; 2 - tracks; 3 - horizontal shelves;
4 - standard element; 5 - metal units.

Card 2/3

L 14462-66

ACC NR: AP6002972

to the angle or channel tracks. Detachable metal units are mounted on the standard elements.

SUB CODE: 13/ SUBM DATE: 12Nov64

Card 3/3

GLIKMAN, L.S.; BOCHAROV, I.V.; VIKHMAN, G.L.; ABROSIMOV, B.Z.; KIRILOV,
Ye.A.; MEL'NIKOV, S.M.; AGAFONOV, A.V.; SOSKIND, D.M.

Rebuilding catalytic cracking units with a combined reactor-regenerator.
Khim. i tekhn. topl. i masel 6 no.11:6-10 N '61. (MIRA 14:12)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut
neftyanogo mashinostroyeniya.
(Cracking process)

VIKHMAN, Goerghi L'vovich; KRUGLOV, Sergey Aleksandrovich; BASKAKOV,
A.A., inzh., retsenzent; YEFREMOVA, T.D., ved. red.;
VOROB'YEVA, L.V., tekhn. red.

[Principles of the design of equipment and machines for
petroleum refineries] Osnovy konstruirovaniia apparatov i
mashin neftepererabatyvaiushchikh zavodov. Moskva, Gos.
nauchno-tekhn. izd-vo nef. i gorno-toplivnoi lit-ry, 1962.
110 p. (MIRA 15:2)

(Petroleum refineries--Equipment and supplies)

VIKHMEN, L.A.

Effect of some drugs on hemagglutination with the influenza virus.
Zhur. mikrobiol. epid. i immun. 31 no. 5:118 My '60.

(MIRA 13:10)

(BLOOD—AGGLUTINATION) (INFLUENZA)

VIKHMAM, M.Ye.

High-pressure pneumatic membrane gauge (pressure-drop gauge).
Khim.i tekhn.topl.i masel 5 no.12:56-58 D '60. (MIRA 13:12)

1. Spetsial'noye konstruktorskoye byuro po avtomatike v neftepererabotke i proizvodstve iskusstvennogo zhidkogo topliva.
(Pressure gauges)

VIKHM, N.A.

Arsenic content in the teeth in health, in caries and in alveolar pyorrhea. Stomatologiya 42 no.3:23-25 My-Je'63 (MIRA 17:1)

1. Iz kafedry terapevticheskoy stomatologii (zav. - prof. Ye.Ye. Platonov) i kafedry obshchey khimii (zav. - dotsent A.A. Zats) Moskovskogo meditsinskogo stomatologicheskogo instituta.

BERKLAYD, I.M.; VIKEMAN, V.S., doktor tekhn. nauk; DRAUDIN, A.T.; KOPANEVICH, N.Ye.; OVCHARENKO, G.I.; TUBENSHLYAK, Z.I.; CHASOVNIKOV, G.V.; TSEYT-LIN, Ya.M.; BAYBUROV, B.S., red.; KOCHENOV, M.I., red.; MALYY, D.D., red.; STROGANOV, L.P., inzh., red. izd-va; DOBRITSYNA, R.I., tekhn. red.

[Automatic controllers] Kontrol'nye avtoraty. Moskva, ~~Nanchno-~~ tekhn. izd-vo mashinostroit. lit-ry, 1961. 193 p. (MIRA 14:8)
(Electronic measurements)

Vikhman,
AUTHOR:

Levenson, Ye.M., Engineer

SOV-117-58-9-22/22

TITLE:

Review (Retsenziya)

PERIODICAL:

Mashinostroitel', 1958, Nr 9, p 48 (USSR)

ABSTRACT:

This is a critical review of a book by V.S. Vikhman published in 1957, entitled "Electro-Automation of Technical Control of Machine-Building Production".

1. Machine tools--Production 2. Machine tools--USSR

Card 1/1

USCOMM-DC-55523

VIKHMEN, V. S. (Cand. Tech. Sci.) and D'YACHENKO, I. Ye. (Dr. Tech. Sci., Prof.):

- XXI. "Automation and Mechanization of Technical Inspection Under Instrument-manufacturing Conditions," Automation and Mechanization of Production Processes in Instrument Manufacturing, Moscow, Mashglz, 1958. 591 p.

PURPOSE: This book is intended for engineers, technicians, and scientific personnel concerned with mechanization and automatin of production processes in instrument manufacturing, and for students and teachers of this subject in vuzes.

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Present State (Cont.)

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Present State (Cont.)

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Ch. XIX. Method of Determining the Economic Effectiveness of Full Mechanization and Automation in Machine Building [K.I. Klimenko, Doctor of Economic Sciences, Professor]

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Card 10/11

VIKHMEN, V.S.

Using television calculating equipment in automatic dimension
control. Izv.tekh. no.11:3-14 N '62. (MIRA 15:11)
(Industrial television) (Electronic control)

PHASE I BOOK EXPLOITATION SOV/5839

Berklayd, I. M., V. S. Vikhman, A. T. Draudin, N. Ye. Kopanevich,
G. I. Ovcharenko, Z. L. Tubenshlyak, G. V. Chasovnikov and Ya. M. Tseytlin

Kontrol' nye avtomaty ([Dimensional-] Control Automatics) Moscow, Mashgiz,
1961. 193 p. (Series: Progressivnyye sredstva kontrolya razmerov v mashino-
stroyenii) Errata slip inserted. 4500 copies printed.

Eds. of Series: B. S. Bayburov, M. I. Kochenov, and D. D. Malyy; Scientific
Ed.: V. S. Vikhman, Doctor of Technical Sciences; Ed. of Publishing House:
L. P. Stroganov, Engineer; Tech. Ed.: R. I. Dobritsyna; Managing Ed. for
Literature on Means of Automation and Instrument Construction: N. V. Pokrov-
skiy, Engineer.

PURPOSE: This book is intended for designers and technical personnel in machine
plants.

Card 1/1

Control Automatics

SOV/5839

COVERAGE: The book contains information on the most important Soviet late-model automatics for the inspection, sorting, and automatic control of machine parts according to their geometric parameters. The book is part of a series devoted to modern means of dimensional control and was recommended by the Commission on the Introduction of Advanced Control Methods and Means in the Machine Industry of the State Scientific-Technological Committee of the Council of Ministers of the USSR. Attention is given to the construction, operation, and specifications of a number of dimensional-control automatics for various purposes. Photographs and layout diagrams are included. No personalities are mentioned. There are no references.

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POKROVSKIY, G.P.; VIKHMAN, V.S., doktor tekhn. nauk, retsenzent;
YEGORKINA, L.I., inzh., red.

[Use of electronic control in automobile engine fuel
systems] Primenenie elektroniki v sistemakh pitaniia
avtomobil'nykh dvigatelei. Moskva, Izd-vo "Mashinostro-
enie, 1964. 98 p. (MIRA 17:5)

VIKHMANN, V.S.

25(1,6) PHASE I BOOK EXPLOITATION 809/592

Abkhazskaya mansk SSSR. Institut mashinostroyeniya

Osnovnye voprosy teorii i tekhnicheskikh izmeneniy v mashinostroyeni (Basic Problems of Accuracy, Interchangeability and Engineering Measurements in Machine Building) Moscow, Mashgis, 1973. 411 p. 4,500 copies printed.

24-1. I.M. Gavrilov, Doctor of Technical Sciences, Professor; Tech. Sc.; S.I. Medel', Managing Ed. for literature on Metal Working and Tool Making (Mashgis); A.D. Boyal'man, Engineer.

REMARKS: This collection of articles is intended for engineering and scientific workers and for teachers and students of machine and instrument building courses.

COVERAGE: This collection of articles presents the works of a team of experts on basic problems of accuracy, interchangeability and engineering measurements, convened in March 1973 by the Machine Building Technology Commission of USSR AN SSSR (Institute of Machine Construction of the Academy of Sciences, USSR), the State Committee for Modern Technology, the Committee for Standard Weights and Measuring Instruments under the Council of Ministers, USSR, the Ministries for Machine Building and the Ministry of Higher Education of the USSR. In the articles dealing with accuracy of fabrication, problems of the theory and practice of calculating accuracy of standard processes and standard products are discussed. In the articles on interchangeability and engineering measurements an evaluation of the present state of this field is presented along with the scientific and engineering outlook for the future. Theoretical and practical problems of automatic inspection are discussed. No personalities are mentioned. There are 110 references of which 111 are Russian, 10 German, 8 English, 1 French.

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Basic Problems of Accuracy (Cont.)	809/592
Vikhman, V.S., Candidate of Technical Sciences. On the Problem of Selecting Methods for Transforming Measuring	374
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AVAILABLE: Library of Congress

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VIKHMEN, V. S.

"An automatic compensation of the wear of cutting tool."

Programmed Control of Metal Cutting Machines. report presented at
All-Union Conference, Moscow, 13-16 Nov 1957

Vestnik Ak. Nauk SSSR, 1958, No. 2, pp. 113-115, (author Kobrinskiy, A. Ye.)

VIKHMANN V-5

GAVRILOV, A.N., prof., doktor tekhn.nauk; DEM'YANYUK, P.S., prof., doktor tekhn.nauk; MITROPANOV, S.P., kand.tekhn.nauk; KORSKOV, V.S., prof., doktor tekhn.nauk; IVANOV, D.P., doktor tekhn.nauk; STO-ROZHEV, M.V., kand.tekhn.nauk; MALOV, A.N., kand.tekhn.nauk; KUDRYAVTSEV, I.V., prof., doktor tekhn.nauk; SHNEIDER, Yu.G., kand.tekhn.nauk; SHUKHOV, Yu.V., dotsent; KAZAKOV, N.P., kand.tekhn.nauk; ZOLOTYKH, B.N., kand.tekhn.nauk; ROZENBERG, L.D., prof., doktor tekhn.nauk; YAKHIMOVICH, D.Ya., inzh.; NIKOLAYEV, G.A., prof., doktor tekhn.nauk; VLADZHIYEVSKIY, A.P., doktor tekhn.nauk; SHAUMYAN, G.A., prof., doktor tekhn.nauk; KOSHKIN, L.N., kand.tekhn.nauk; BOBROV, V.P., kand.tekhn.nauk; NOVIKOV, M.P., kand.tekhn.nauk; VIKHMAN, V.S., kand.tekhn.nauk; DERBISHER, A.V., kand.tekhn.nauk; KLIMENKO, K.I., prof., doktor ekonom.nauk; VIATKIN, A.Ye., inzh.; SATEL', E.A., prof., doktor tekhn.nauk; POPOV, I.G., inzh.; MATVEYENKO, V.V., inzh.; KOCHETOVA, G.F., inzh., red.izd-va; KL'KIND, V.D., tekhn.red.; TIKHANOV, A.Ya., tekhn.red.

[Present status and trends of future development of technological processes in the manufacture of machinery and instruments] Sovremennoe sostoyanie i napravleniya razvitiya tekhnologii mashinostroyeniya i priborostroyeniya. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroyit.lit-ry, 1960. 563 p. (MIRA 13:7)

(Machinery industry--Technological innovations)
(Instrument manufacture--Technological innovations) (Automation)

BALAKSHIN, O.B.; VIKHMEN, V.S., doktor tekhn. nauk, retsenzent;
KURATTSEV, L.Ye., inzh., red.

[Automation of pneumatic control of dimensions in the
manufacture of machinery] Avtomatizatsiia pnevmaticheskogo
kontrolia razmerov v mashinostroenii. Moskva, Mashino-
stroenie, 1964. 363 p. (MIRA 17:10)

L 24870-66 EWT(d)/ENP(v)/ENP(k)/ENP(h)/ENP(i)

ACC NR: AP6006373

SOURCE CODE: UR/0413/66/000/002/0107/0107

AUTHORS: Kuznetsov, V. S.; Vikhman, V. S.; Leont'yev, K. L.; Zharov, N. A.; Rez, I. S.

46
B

ORG: none

TITLE: An automatic pyrometer of the spectral ratio. Class 42, No. 178146

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 107

TOPIC TAGS: automatic control technology, pyrometer, spectrum analyzer, precision instrument machinery

ABSTRACT: This Author Certificate presents an automatic spectral ratio pyrometer. The pyrometer contains a radiation receiver, an amplifier, an output signal commutator, and an indicator or a slave mechanism. The design shortens the pyrometer response time, increases the instrumental precision, and simplifies the scaling circuit of the pyrometer. The unit has an electro-optical system in the form of a rapid response dispersion light filter with an electro-optical crystal (see Fig. 1). This crystal is switched by an electronic commutator. The output of the circuit controlling the sensitivity of the radiation receiver (to normalize the

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L 24870-66

ACC NR: AP6006373

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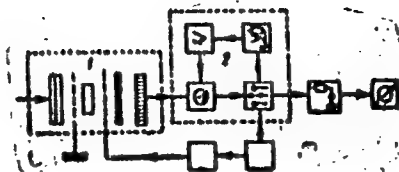


Fig. 1. 1 - rapid response controlled electro-optical light filter; 2 - circuit for controlling the sensitivity of the radiation receiver.

output signal) is connected to one of the outputs of the electronic commutator. The output of the sensitivity control circuit is connected to the outputs of the radiation receiver. Orig. art. has: 1 figure.

SUB CODE: 30,01,14/SUBM DATE: 06Jun64

Card 2/2 dda

ABAKUMOVSKIY, D.D., inzh.; VIKIMAN, Yu.L., inzh.; VODOVOZOV, A.I., inzh.;
ZORIN, R.P., inzh.; IGNATCHENKO, Ye.A., inzh.; LATINSKIY, M.E., inzh.;
SAZONOV, A.I., inzh.; PRITULA, V.A., inzh.; POMAZKOV, S.A., inzh.;
FRUKHTSEYN, L.I., inzh.; SAPOZHNIKOV, N.M., inzh.; KASYUK, A.I., inzh.;
YANKELEV, L.F., inzh.; BASHILOV, M.M., otv. red.; LATINSKIY, M.E., red.;
POLOSINA, A.S., tekhn. red.

[Handbook for buidlers and assemblers of the petroleum industry]
Spravochnik stroitelia-montazhnika neftianoi promyshlennosti. Mo-
skva, Gostoptekhizdat, 1946. 250 p. (MIRA 15:4)

1. Russia(1923- U.S.S.R.) Narodnyy komissariat neftyanoy promysh-
lennosti. Glavnoye upravleniye. 2. Narodnyy komissariat neftyanoy
promyshlennosti SSSR (for all except Bashilov, Latinskiy, Polosina).
(Petroleum industry)

VIKIMAN, Z.A., Iran.; FISHER, F.K., Inzh.

Conveyor with an automatic addressing system used in a machine
shop. Mekh. i avtom. proizv. 18 no.4:31-34 Ap'64. (MIRA 17:5)

VIKHMANN, F. [Vichmann, F.]

Generalized convergence factors for Euler-Knopp's method. Eesti
tead akad tehn fuus 11 no.2:107-113 '62.

1. Tartuskiy gosudarstvennyy universitet.

BABITSKIY, Il'ya Filippovich; VIKHMAN, Georgiy L'vovich;
VOL'FSON, Samuil Iosifovich; KORSUN, Ye.P., ved. red.

[Designing and constructing the apparatus of petroleum
refineries] Raschet i konstruirovaniye apparatury nefte-
pererabatyvaiushchikh zavodov. 2. perer. i dop. izd.
Moskva, Nedra, 1965. 903 p. (MIRA 18:2)

L 12808-66 EWT(1)/EWA(j)/T/EWA(b)-2 JK

ACC NR: AP5028188

SOURCE CODE: UR/0248/65/000/008/0074/0082

AUTHOR: Prozorovskiy, S. V.; Vikhnovich, E. M.; Vinnikova, N. I.; Zubets, N. A.

ORG: Institute of Epidemiology and Microbiology im. N. F. Gamalei, AMN SSSR (Institut epidemiologii i mikrobiologii AMN SSSR); Institute of Virology im. D. I. Ivanovskiy, AMN SSSR, Moscow (Institut virusologii AMN SSSR)

TITLE: Biology of L-forms of bacteria and mycoplasmas, causative agents of diseases of the respiratory organs and upper respiratory tract

SOURCE: AMN SSSR. Vestnik, no. 8, 1965, 74-82

TOPIC TAGS: bacteria, mycoplasma, infective disease, microbiology

ABSTRACT: Study of various representatives of Mycoplasmataceae - *M. gallinarum*, *M. gallisepticum*, *M. inners*, *Murimices pulmonis*, *Musculomices pulmonis*, *M. hyorhinis*, *M. mycoides*, *M. pneumoniae*, *M. salivarium*, and *M. orale* - showed them to be pneumotropic, aerobic (except *M. salivarium* and *M. orale*), similar in enzymatic activity, in need of horse or rabbit serum in the medium to ensure growth, and capable of causing α - or β -hemolysis of equine erythrocytes. These agents are serologically

Card 1/2

UDC: 576.8.095.5.06 : 616.2

L 12808-66

ACC NR: AP5028188

specific. A comparison of *M. pneumoniae* and other mycoplasmas revealed that the morphology and microstructure of *M. pneumoniae* colonies are typical of most mycoplasmas. In view of the close relationship between mycoplasmas and bacterial forms and the reversion of some strains of mycoplasmas into bacteria, the authors conclude that some species of mycoplasmas can be regarded as L-form bacteria. They suggest that in the light of this phenomenon research should be directed to elucidation of the possible role of L-form bacteria and mycoplasmas in the pathogenesis of some acute and chronic diseases of the respiratory organs and upper respiratory tract. Orig. art. has: 5 figures, 2 tables.

SUB CODE: 06/ SUBM DATE: 02Jun65/ ORIG REF: 024/ OTH REF: 000

jw
Card 2/2

KAGAN, G.Ya.; DREYZIN, R.S.; PROZOROVSKIY, S.V.; VIKHNOVICH, E.M.

Cultivation of Eaton's agent (*Mycoplasma pneumoniae*) on
artificial culture media. Biul. eksp. biol. i med. 60
no.9:75-78 S '65. (MIRA 18:10)

1. Otdel obshchey meditsinskoy mikrobiologii (zav. - deyst-
vitel'nyy chlen AMN SSSR prof. V.D. Timakov) Instituta epi-
demiologii i mikrobiologii imeni Gamalei (dir. - chlen-
korrespondent AMN SSSR prof. P.A. Vershilova) AMN SSSR i
Institut virusologii imeni Ivanovskogo (dir. - deystvitel'nyy
chlen AMN SSSR prof. V.M. Zhdanov), Moskva.

VIKHOVICH, O.L., inzh.

Vibration drawing of ore. Bezop. truda v prom. 8 no.10:25-26 0 '64.
(MIRA 17:11)

1. Institut gornogo dela im. A.A. Skochinskogo.

VIKHNOVICH, O.L. (Moskva); GONCHAREVICH, I.F. (Moskva); TERPAGOSOV, Z.A.
(Moskva)

Study of the operational productivity and labor consumption
of vibration drawing and delivery of ore. Izv. AN SSSR. Met.
i gor. delo no.6:179 N-D '64. (MIRA 18:3)

MARKOV, Georgi; TOSHKOV, Marin; VIKHODTSEVSKI, Nikolai

Protection of nature in Bulgaria. Priroda Bulg 13 no.3:3-9
My-Je '64.

VIKHODTSESII, N.

"Contribution to the study of the biology of the sea dragon, Trachinus draco L."

p. 585 (Izvestia) Vol. 7, no. 7, 1956. Sofia, Bulgaria

SO:: Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 5., May 1958

VIKHOREV, B.A.; MININ, A.Ye.

Modernization of atomizers and batchers for electric painting.
Der. prom. 13 no.9:24-25 S '64.

(MIRA 17:11)

1. Leningradskaya fabrika muzykal'nykh instrumentov im. Lunacharskogo.

MININ, A.Ye.; VIKHOREV, B.A.

Some characteristics of the electric painting of wood. Der. prom.
(MIRA 18:5)

14 no.4:15 Ap '65.

MININ, A.Ye.; VIKHOREV, B.V.

Fire prevention measures at installations for wood finishing.
Der. prom. 14 no.1:24-25 Ja '65.

(MIRA 18:4)

MININ, Andrey Yuliyevich; VIKHOREV, Boris Andreyevich;
KOTLYAREVSKAYA, G.A., red.

[Operation of units for electrostatic spray painting]
Ekspluatatsiia elektrokrasochnykh ustanovok. Lenin-
grad, 1965. 26 p. (MIRA 18:7)

VIKHOREV, G., inzh.

Optimum velocity of air in air coolers. Khol. tekhn. 35 no. 3:48
My-Je '58. (MIRA 11:7)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy
promyshlennosti.
(Refrigeration and refrigerating machinery)

VIKHOREV, G.

Calculations for a heat pump used for heating [with summary in English]. Khol.tekh. 37 no.2:22-24 My-Ap'60. (MIRA 13:10)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'noy promyshlennosti.

(Heat pumps)

VIKHOREV, G.A., kand. tekhn. nauk. [deceased]

Selecting the optimum current density for thermoelectric refrigeration systems on the basis of a technical and economic analysis. Khol. tekhn. i tekhn. no.1:19-23 '65. (MIRA 18:9)

VIKHOREV, G.A., kand. tekhn. nauk; SEMENYUK, V.A., inzh.

Effect of the thermal e.m.f. on the characteristics of semiconductor batteries fed by their rectifiers. Khol. tekhn. i tekhn.
no.1:24-28 '65. (MIPA 18:9)

BONDARENKO, K. F., inzh.; VIKHOREV, G.A., inzh.

Determining the height of coil spiral fins on the basis of
the condition of the volume of metals. Trudy OTIPiKhP 12:
117-120 '62. (MIRA 17:1)

1. Kafedra kholodil'nykh ustanovok i kafedra kholodil'nykh
mashin Odesskogo tekhnologicheskogo instituta pishchevoy
i kholodil'noy promyshlennosti.

MEL'TSER, L.Z., kand.tekhn.nauk; VIKHOREV, G.A., inzh.; KOMISSARENKO,
V.A., inzh.; SRINIVASAN, R.V.

Experimental study of a two-stage compressor with a 1 : 1
ratio of the stage volumes. Khol.tekh. 40 no.5:23-27 S-0
'63. (MIRA 16:11)

1. Odesskiy tekhnologicheskii institut pishchevoy i kholodil'-
noy promyshlennosti.

VIKHOREV, K.A., inzh.; KURBATOV, N.M., inzh.

Supplying preassembled diesel engines from machine manufacturing
plants and installing them in ships. Sudostroenie 24 no.7:50-53
J1 '58. (MIRA 11:9)

(Marine diesel engines)

AMROM, S.D., LEBEDEV, O.T.; VIKHOREVA, K.N.

Device for studying the higher nervous activity in man by the
method of conditioned level. Zhur. vys. nerv. dsiat. 15 no.3:
567-572 My-Je '65. (MIRA 18:6)

1. Institut evolyutsionnoy fiziologii i biokhimii im. I.M.
Sechenova AN SSSR.

VIKHOREV, V.A.; ALEJNIKOVA, F.A.

Activity of the Printing Industry Section of the Technical and
Economic Committee of the Leningrad Economic Council. Biul.-
tekh.-ekon.inform. no.2:85-86 '62. (MIRA 15:3)
(Leningrad--Printing industry)

ACC NR: AP6015682

(N)

SOURCE CODE: UR/0413/66/000/009/0079/0079

INVENTOR: Vikhorev, V. G.; Deniskin, V. P.; Trakhtenberg, L. I.

ORG: None

TITLE: An eddy current instrument for measuring the thickness and resistivity of sheet material. Class 42, No. 181306

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, 79

TOPIC TAGS: eddy current, electronic measurement, resistivity

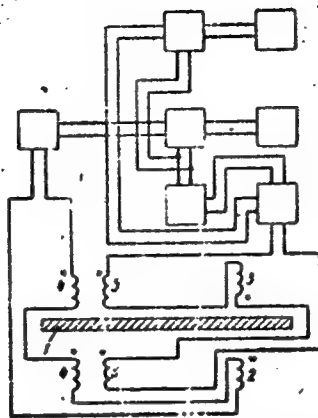
ABSTRACT: This Author's Certificate introduces an eddy current instrument for measuring the thickness and resistivity of sheet material. The unit contains an rf current generator, two overlapping eddy current pickups, phase detectors which are sensitive to changes in the thickness and resistivity of the sheet material and an indicator. The unit is designed for eliminating the effect which changes in the gap between the pickups and the sheet being inspected have on instrument readings. The device contains a shielded pickup with current and measurement coils with the same geometric specifications as the corresponding coils in the overlapping pickups, while the measurement coil in the shielded pickup has three times as many turns as that in the overlapping pickup. The current coils in all pickups are connected in series and are all in phase. The measurement coils in the overlapping pickups are likewise connected.

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UDC: 531.717.11.621.317.33

ACC NR: AP5015682

in series and in phase with each other and in series and opposition with the measurement coil of the shielded pickup.



1--sheet being inspected; 2--current coil of the shielded pickup; 3--measurement coil of the shielded pickup; 4--current coils of the overlapping pickups; 5--measurement coils of the overlapping pickups

SUB CODE: 09/ SUBM DATE: 12Jul65

Card 2/2

LEBEDEV, O.T.; VIKHOREVA, K.N.

Device for synchronizing stimulators and controlling and measuring instruments. Fiziol.zhur. 51 no.7:895-896 '65.

(MIRA 18:10)

1. Institut evolyutsionnoy fiziologii imeni I.M.Sechenova AN SSSR,
Leningrad.

L 27646-66

ACC NR: AP6018518

SOURCE CODE: UR/0239/65/051/007/0895/0896

AUTHOR: Lebedev, O. T; Vikhoreva, K. N.

ORG: Institute of Evolutionary Physiology, im. I. M. Sechenov, Leningrad, AN SSSR
(Institut evolyutsionnoy fiziologii AN SSSR)

TITLE: Instrument for synchronous switching on of a stimulant and of control and measuring devices

SOURCE: Fiziologicheskiy zhurnal SSSR, v. 51, no. 7, 1965, 895-896

TOPIC TAGS: electronic circuit, conditioned reflex, electric relay, electronic equipment

ABSTRACT: An electronic circuit has been designed by means of which the stimulant and a number of control and measuring devices are switched on simultaneously in experiments in which the dynamic characteristics of analysors (visual, auditory, etc.) are studied. Application of the circuit proposed eliminates the shortcomings connected with the use of electro-mechanical relays. The arrangement in question is suitable for the study of conditioned reflexes. Orig. art. has 1 figure. [JPRS]

SUB CODE: 06,09/ SUBM DATE: 18Feb64/ ORIG REF: 001/ OTH REF: 001

UDC: 612.84.08

Card 1/1

L 23162-66
ACC NR: AP5015947

SOURCE CODE: UR/0247/65/015/003/0567/0572

AUTHOR: Amrom, S. D.; Lebedev, O. T.; Vikhoreva, K. N. 211
B

ORG: Institute of Evolutionary Physiology and Biochemistry imeni I. M. Sechenova, Academy of Sciences, SSSR (Institut evolyutsionnoy fiziologii i biokhimii Akademii nauk SSSR)

TITLE: Device for the investigation of higher nervous activity in man by the conditioned level method

SOURCE: Zhurnal vysshey nervnoy deyatel'nosti, v. 15, no. 3, 1965, 567-572

TOPIC TAGS: nervous system, reflex activity, conditioned reflex; medical equipment

ABSTRACT: The conditioned level method proposed for studying higher nervous activity consists of having the subject press a button up to an assigned point on the scale of a reflexometer; his sense of sight, hearing or touch may be used. The subject is then required to repeat the same action "blindly". A special apparatus was constructed for the study of this method. When the apparatus is turned on the first timer measures the time of latent stimulation. Simultaneously, a stimulus

UDC: 612.833.81 + 612.821.1

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L 23162-66
ACC NR: AP5015947

(sound, light, etc.) is generated. As soon as the subject presses the button on his control board the first timer is stopped and the second is activated. When the stimulus is stopped by the subject, a starting impulse is produced which stops the second timer and switches on the third. This timing device, measuring the time of latent retardation, continues to count the time until the operation stops. If the "blind" action of the subject fails to reach the given level, the third device is not switched on and the second timer operates until the operation stops. There are four stimulators in the apparatus which may emit stimuli at (1) the beginning of the latent stimulation, (2) the end of the latent stimulation, (3) the end of the reaction, i. e., at the beginning of latent retardation, (4) the end of latent stimulation. The order of stimuli may be varied, for example, to 1-4, 2-3, 3-4, etc. The exact deviation from the conditioned level of the "blind" action of the subject is measured by the deflection of rays on the screen of an oscillograph. Block diagrams of the test apparatus are presented. Orig. art. has: 4 figures.

SUB CODE: 06/

SUBM DATE: 23Mar64/

ORIG REF: 006/

OTH REF: 000

Card 2/2 *ULR*

SHISHOKIN, V.P.; AGNYEVA, V.A.; VIKHOREVA, N.A.

Determination of a rapid hardness index as method of physicochemical
analyses. Trudy LPI no.202:56-64 '59. (MIRA 12:12)
(Metals--Testing) (Hardness)

SHISHOKIN, V.P.; VIKHOREVA, N.A.

Concentrated method of determining durable hardness. Trudy LPI
no.202:65-67 '59. (MIRA 12:12)
(Metals--Testing) (Hardness)

18(7), 18(6)

SCV/163-52-131/50

AUTHORS: Shishokin, V. P., Vikhoreva, E. A.

TITLE: Concentric Method of Long-term Hardness Determination as a Method of Physicochemical Analysis (Kontsentratsionnyy sposob opredeleniya dlitel'noy tverdosti kak metod fiziko-khimicheskogo analiza)

PERIODICAL: Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 1, pp 165 - 167 (USSR)

ABSTRACT: In this investigation the long-term hardness was determined by impressing a cone successively into the same indentation, which thus can be described as a method of concentric indentations. The opening angle of the cone was 90°. Lead, tin, cadmium, and bismuth, and the eutectic alloys and solid solutions formed by these metals were investigated. In all cases a rectilinear relationship was found to exist between the logarithm of the indentation diameter and the logarithm of the load time. Eutectic alloys exhibited the greatest reduction of hardness with increasing duration

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Concentric Method of Long-term Hardness Determination
as a Method of Physicochemical Analysis

007/103-10-1-11/50

of load time. Variations of the load between 16.4 -62 kg exert no influence upon the ratio hardness-load time. The relationship between the indentation diameter d and the load time τ is expressed by the formula $d = a\tau^n$, where a and n are constants depending upon the composition and the structure of the alloy. As, however, between the Brinell hardness H_B and the indentation diameter d there exists the relationship $H_B = a_1 d^{-2.04}$ (Ref 2), the yields $H_B = a_2 \tau^{n'}$,

where $n' = 2.04 n$, n can be determined according to a formula given in this paper. n' is the index of the hardness variation rate and is a measure of long-term hardness. A parallel course is found between the variation of n' and the thermal coefficient of the hardness (Ref 6). A reduction of the deformation rate exerts the same influence upon the mechanical properties as a rise in temperature. The factors which are the cause of the varying magnitude of n' must also influence the thermal coefficient of hardness. The principal factor influencing the modification of hardness is the

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Concentric Method of Long-term Hardness Determination
as a Method of Physicochemical Analysis

SOV/163-59-1-31/50

displacement of the equilibrium in the following reversible process: consolidation \rightleftharpoons stress relief (Ref 7). In eutectic alloys this displacement may be connected with the solution and precipitation processes taking place at the contact surfaces between the phases (Ref 8). In solid solutions the displacement of equilibrium due to a change of temperature and of the rate of deformation can be determined by variations of the volume and of the polarization conditions (Ref 9). There are 1 figure, 1 table, and 9 references, 7 of which are Soviet.

ASSOCIATION: Leningradskiy politekhnicheskii institut (Leningrad Polytechnical Institute)

SUBMITTED: April 5, 1958

Card 3/3

VIKHOTSKIY, L. (g.Slavgorod, Mogilevskoy obl.)

Your communal occupation. Sov. profsoiuzy 18 no.3:33 F
'62. (MIRA 15:3)
(Slavgorod—Factory libraries)

VIKHRENKO, N.M.

Suspended matters in the northwestern half of the Atlantic Ocean based on the data of the seventh voyage of the electric propulsion ship "M. Lomonosov". Trudy Inst. okean. 40-2

Organic matter in the surface layer of sediments in the northern part of the Atlantic Ocean. Ibid.:120-135 (MIRA 17:6)

VIKHRENKO, N.M.

~~Organic carbon in the bottom sediments of the northern part of~~
the Atlantic Ocean. Okeanologiya 4 no.3:437-446 '64
(MIR 12:1)

1. Institut okeanologii AN SSSR.

VIKHRENKO, N. M.

Bitumen feature of organic matter in cores from the northern
part of the Atlantic Ocean as revealed by luminescence studies.
Trudy Inst. okean. 56:32-58 '62. (MIRA 15:10)

(Atlantic Ocean--Organic matter--Analysis)
(Bitumen--Analysis) (Luminescence)

VIKHRENKO, N. M.; NIKOLAYEVA, V. K.

Suspended matter of the northern part of the Atlantic Ocean from
data from the second and fourth cruises of the research ship
"Mikhail Lemonosov". Trudy Inst. okean. 56:87-122 '62.
(MIRA 15:10)

(Atlantic Ocean—Water—Analysis)

KLENOVA, Mariya Vasil'yevna; SOLOV'YEV, Vladimir Filippovich;
ALEKSINA, Iya Aleksandrovna; ~~VIKHRENKO, Nina Makarovna;~~
KULAKOVA, Lidiya Sergeyevna; MAYEV, Yegor Georgiyevich;
RIKHTER, Vladislav Gavrilovich; SKORNYAKOVA, Nadezhda
Sergeyevna; ZENKOVICH, V.P., otv. red.; LEONT'YEV, O.K.,
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